



Dart Hawkesbury  
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada  
Tel (613) 632-5200

# Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
P0039920	MCM001-VU	1	1	2% 10 Net 30	90177A213	Split Ring Zinc-Plated Steel Split Ring 1" OD, 13/16" ID, 1/8" Thick				100	5/22/2018	100		S073058	Stock	5/22/2018	\$ 0.13 / Ea	0		\$12.94	McMaster-Carr Supply Co,
		2			C10-7	Locating Pin						100		S072955	Stock	5/22/2018	\$ 0.28 / pcs	0		\$28.36	McMaster-Carr Supply Co,
		3			MDELINR5.000W	McDelrin Round Bar, White				3		3		S073092	Stock	5/22/2018	\$ 144.05 / ft	0		\$432.15	McMaster-Carr Supply Co,
		4			8920K22	Low Carbon Steel Rod, 6mm dia., 3' Long receive ea				6		6		S073090	Stock	5/22/2018	\$ 1.59 / ft	0		\$9.54	McMaster-Carr Supply Co,
		5			D3373-7P	Cam Lock receive pcs				5		5		S072956	Inactive	5/22/2018	\$ 8.50 / Ea	0		\$42.50	McMaster-Carr Supply Co,
		6			8183K6	Wire Guide/Grip				12		12		S073059	Stock	5/22/2018	\$ 9.83 / Ea	0		\$117.96	McMaster-Carr Supply Co,
		7			EL-PLUG-M	3-Prong Male Spade Plug				25		25		S072957	Stock	5/22/2018	\$ 7.03 / Ea	0		\$175.75	McMaster-Carr Supply Co,
		8			EL-PLUG-F	3-Prong Female Spade Plug				10		10		S072958	Stock	5/22/2018	\$ 12.23 / Ea	0		\$122.30	McMaster-Carr Supply Co,
		9			SWA6A-1900	Female Spade Terminal - 1/4"				100		100		S073060	Stock	5/22/2018	\$ 0.07 / Ea	0		\$7.20	McMaster-Carr Supply Co,
		10			188-FPSS-1032-1/4	Set Screw						100		S073061	Stock	5/22/2018	\$ 0.11 / Ea	0		\$10.84	McMaster-Carr Supply Co,
		11			2595K22	Heat Shrink Tube				30		30		S073047	Stock	5/22/2018	\$ 4.70 / Ea	0		\$141.00	McMaster-Carr Supply Co,



PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
		26			94355A227	18-8 Stainless Steel Flat-Tip Set Screw						50			S072962	Stock	5/22/2018	\$ 0.10 / Ea	0	\$4.80	McMaster-Carr Supply Co.
		27			96194A102	Serrated Flange Locknut				100		100			S073071	Stock	5/22/2018	\$ 0.07 / Ea	0	\$6.73	McMaster-Carr Supply Co.
		28			97245A453	Pin				20		20			S072963	Stock	5/22/2018	\$ 1.44 / pcs	0	\$28.86	McMaster-Carr Supply Co.
		29			98338A280	Collet Pin				50		50			S073072	Stock	5/22/2018	\$ 0.47 / pcs	0	\$23.44	McMaster-Carr Supply Co.
		31			C2-5-1	Actuator Stop				20		20			S072964	Stock	5/22/2018	\$ 0.39 / Ea	0	\$7.77	McMaster-Carr Supply Co.
										<b>Total:</b>		<b>1,298</b>								<b>\$1,383.40</b>	

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Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# PURCHASE ORDER PO039920

**Supplier:** MCM001-VU  
McMaster-Carr Supply Co,  
P.O. Box 7690  
Chicago, IL 60680-7690 USA  
Phone: 330 995 5500  
Fax: 330 995 9600

**PO No:** PO039920

**PO Date:** 5/16/18

**Due Date:** 5/18/18

**Purchase Order**

**Revision:**

**Revision Date:**

**Ship-To Contact:** Lavoie, Chantal  
clavoie@dartaero.com

**E-MAILED**  
MAY 16 2018

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

**Via:** Ground

**Pymt Terms:** 2% 10 Net 30

**Freight Terms:**

**Special Comments:**

## Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1	90177A213	100/pk	Split Ring Zinc-Plated Steel Split Ring 1" OD, 13/16" ID, 1/8" Thick	Firmed	5/18/18	100 Ea	0 Ea	100 Ea	\$0.1294/Ea	\$12.94
2	C10-7	98381A544 25/PK	Locating Pin	Firmed	5/18/18	100 pcs	0 pcs	100 pcs	\$0.2836/pcs	\$28.36
3	MDELINR5.000W	8572K38	M-Delrin Round Bar, White	Firmed	5/18/18	3 ft	0 ft	3 ft	\$144.05/ft	\$432.15
4	8920K22	6 ft	Low Carbon Steel Rod, 6mm dia., 3' Long receive ea	Firmed	5/18/18	6 ft	0 ft	6 ft	\$1.59/ft	\$9.54
5	D3373-7P		Cam Lock receive pcs	Firmed	5/18/18	5 Ea	0 Ea	5 Ea	\$8.50/Ea	\$42.50
<b>Line Item Note</b> KEY ALIKE MC MASTER P/N: 1770A725										
6	8183K6	1/pk	Wire Guide/Grip	Firmed	5/18/18	12 Ea	0 Ea	12 Ea	\$9.83/Ea	\$117.96
7	EL-PLUG-M	7216k5 1/pk color yellow	3-Prong Male Spade Plug	Firmed	5/18/18	25 Ea	0 Ea	25 Ea	\$7.03/Ea	\$175.75
8	EL-PLUG-F	7216k6 1/pk color yellow	3-Prong Female Spade Plug	Firmed	5/18/18	10 Ea	0 Ea	10 Ea	\$12.23/Ea	\$122.30
9	SWA6A-1900	69525K16 100 pcs per pk	Female Spade Terminal - 1/4"	Firmed	5/18/18	100 Ea	0 Ea	100 Ea	\$0.072/Ea	\$7.20
10	188-FPSS-1032- 1/4	94355A330 25/pk	Set Screw	Firmed	5/18/18	100 Ea	0 Ea	100 Ea	\$0.1084/Ea	\$10.84

Items										
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
11	2595K22	1/pk	Heat Shrink Tube	Firmed	5/18/18	30 Ea	30x 0 Ea	30 Ea	\$4.70/Ea At 18/05/22	\$141.00
12	7767T65	6 ft	Low-Carbon Steel Round Tube, 0.188" Wall Thickness, 1-3/8" OD	Firmed	5/18/18	12 ft	12x 0 ft	12 ft	\$6.16666/ft At 18/05/22	\$74.00
Line Item Note 2 PCS OF 6 FT										
13	84735K117	50/pk	Cap receive ea	Firmed	5/18/18	50 Ea	50x 0 Ea	50 Ea	\$0.2758/Ea At 18/05/22	\$13.79
14	8547K45		Tube ALT. P/N 8547K893 receive ea	Firmed	5/18/18	60 Ea	60x 0 Ea	60 Ea	\$34.25/Ea	\$2,055.00
15	90263A112	5/pk	Shoulder Screw	Firmed	5/18/18	10 Ea	10x 0 Ea	10 Ea	\$2.398/Ea At 18/05/22	\$23.98
16	90576A115	100/pk	Nylon Insert Locknut	Firmed	5/18/18	100 Ea	100x 0 Ea	100 Ea	\$0.0468/Ea At 18/05/22	\$4.68
17	91352A156	10/pk	Button Head Socket Cap Screw	Firmed	5/18/18	10 Ea	10x 0 Ea	10 Ea	\$0.541/Ea At 18/05/22	\$5.41
18	91306A674	50/pk	Button Head Socket Cap Screw	Firmed	5/18/18	50 Ea	50x 0 Ea	50 Ea	\$0.2108/Ea At 18/05/22	\$10.54
19	90591A260	100/pk	M5 x 0.8mm - HEX NUT receive ea	Firmed	5/18/18	100 Ea	100x 0 Ea	100 Ea	\$0.0269/Ea At 18/05/22	\$2.69
20	90965A160	100/pk	Washer receive ea	Firmed	5/18/18	100 Ea	100x 0 Ea	100 Ea	\$0.0462/Ea At 18/05/22	\$4.62
21	9263K642	10/pk	O-Ring receive ea	Firmed	5/18/18	10 Ea	10x 0 Ea	10 Ea	\$0.574/Ea At 18/05/22	\$5.74
22	93441A170	25/pk	Slotted Unthreaded Spacer	Firmed	5/18/18	25 Ea	25x 0 Ea	25 Ea	\$0.2616/Ea At 18/05/22	\$6.54
23	93640A123	10/pk	Socket Head Cap Screw	Firmed	5/18/18	20 Ea	20x 0 Ea	20 Ea	\$0.974/Ea At 18/05/22	\$19.48
24	93791A424	5/pk	Flat Head Screw, SS, 3/8"-16 x 1" LG.	Firmed	5/18/18	30 Ea	30x 0 Ea	30 Ea	\$1.04/Ea At 18/05/22	\$31.20
25	93800A650	50/pk	Hex Nut Color off-white	Firmed	5/18/18	50 Ea	50x 0 Ea	50 Ea	\$0.1718/Ea At 18/05/22	\$8.59
26	94355A227	50/pk	18-8 Stainless Steel Flat-Tip Set Screw	Firmed	5/18/18	50 Ea	50x 0 Ea	50 Ea	\$0.096/Ea At 18/05/22	\$4.80
27	96194A102	100/pk	Serrated Flange Locknut	Firmed	5/18/18	100 Ea	100x 0 Ea	100 Ea	\$0.0673/Ea At 18/05/22	\$6.73
28	97245A453	10/pk	Pin	Firmed	5/18/18	20 pcs	20x 0 pcs	20 pcs	\$1.443/pcs At 18/05/22	\$28.86

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Items										
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
29	98338A280	50/pk	Cotter Pin	Firmed	5/18/18	50 pcs	0 pcs	50 pcs	\$0.4688/pcs	\$23.44
30	AGD-2	2092A42 1/pk	1" Dial Indicator 0" to 1" Range	Firmed	5/18/18	1 Ea	0 Ea	1 Ea	\$90.45/Ea	\$90.45
31	C2-5-1	90145A509 20/PK	Actuator Stop	Firmed	5/18/18	20 Ea	0 Ea	20 Ea	\$0.3885/Ea	\$7.77
Grand Total:										\$3,528.85
Order Notes										
Procurement Quality Clauses A005 RIGHT OF ENTRY A016 PERSONNEL QUALIFICATION A026 CERTIFICATION OF MATERIAL CONFORMANCE A032 DOCUMENT SPECIAL REQUIREMENTS A033 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS A040 NOTIFICATION OF QUALITY ESCAPE A041 QUALITY MANAGEMENT SYSTEM A042 DART NOTIFICATION BY SUPPLIER A043 RETENTION OF QUALITY DOCUMENTS  A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM A049 SUPPLIER AWARENESS										
Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit <a href="http://www.dartaerospace.com">www.dartaerospace.com</a> for further explanation.										

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200 Aurora Industrial Pkwy  
Aurora OH 44202-8087  
330-995-5500  
cle.sales@mcmaster.com

Dart Aerospace Ltd  
1270 Aberdeen St  
Hawkesbury ON K6A 1K7  
Canada

Purchase Order  
**PO039920**

Order Placed By  
**Chantal Lavoie**

McMaster-Carr Number  
**3695508-04**

Page 1 of 2

05/16/2018

Line	Product	Ordered	Shipped
1	<b>90177A213</b> Zinc-Plated Steel Split Rings, 9/16" OD, 7/16" ID, 1/16" Thick, Packs of 100	1 Pack	1
2	<b>98381A544</b> Dowel Pin, Alloy Steel, 1/4" Diameter, 1-1/4" Long, Packs of 25	4 Packs	4
5	<b>1770A725</b> Zinc Keyed Cam Lock, Nickel-Plated, Key #C420A for 1-7/16" Maximum Thickness, Clockwise	5 Each	5
6	<b>8183K6</b> Brass Submersible Cord Grip, Metric Threads, for 0.12"-0.2" Cord OD, M8 Knockout Size	12 Each	12
7	<b>7216K5</b> Straight-Blade Connector, Hinged, 3-Blade Plug, Grounded, NEMA 5-15, Yellow	25 Each	25
8	<b>7216K6</b> Straight-Blade Connector, Hinged, 3-Slot Socket, Grounded, NEMA 5-15, Yellow	10 Each	10
9	<b>69525K16</b> Noninsulated Quick-Disconnect Terminals, Single-Crimp Female, 16-14 Gauge, 1/4" Wide x 0.032" Thick Tab, Packs of 100	1 Pack	1
10	<b>94355A330</b> 18-8 Stainless Steel Flat-Tip Set Screws, 10-32 Thread, 1/4" Long, Packs of 25	4 Packs	4
11	<b>2595K22</b> Fuel-Resistant Ultra-Flex Heat-Shrink Tubing, 0.19" ID Before Shrinking, 1/2 Feet Long	30 Each	20
13	<b>84735K117</b> Flexible Vinyl High-Temperature Push-on Round Caps for 1"-1-1/16" OD, 1-1/2" Inside Height, Packs of 50	1 Pack	1
15	<b>90263A112</b> 316 Stainless Steel Precision Shoulder Screw, 3mm Diameter 3mm Long Shoulder, M2 x 0.4mm Thread	10 Each	10
16	<b>90576A115</b> Medium-Strength Steel Nylon-Insert Locknut, Class 8, Zinc-Plated, M6 x 1 mm Thread, Packs of 100	1 Pack	1
17	<b>91352A156</b> Alloy Steel Button Head Hex Drive Screws, Blue-Dyed Zinc-Plated, M8 x 1.25 mm Thread, 30 mm Long, Packs of 10	1 Pack	1
18	<b>91306A674</b> Button Head Hex Drive Screws, Zinc-Plated Alloy Steel, M6 x 1 mm Thread, 25 mm Long, Packs of 50	1 Pack	1
19	<b>90591A260</b> Zinc-Plated Steel Hex Nut, Medium-Strength, Class 8, M5 x 0.8 mm Thread, Packs of 100	1 Pack	1
20	<b>90965A160</b> 316 Stainless Steel Washer for M5 Screw Size, 5.3 mm ID, 10 mm OD, Packs of 100	1 Pack	1
21	<b>9263K642</b> Chemical-Resistant Viton Fluoroelastomer O-Ring, 1.9 mm Wide, 7.8 mm ID, Packs of 10	1 Pack	1
22	<b>93441A170</b> Slotted Unthreaded Spacers, 1/4" OD, 1/4" Long, Packs of 25	1 Pack	1
23	<b>93640A123</b> Nylon Socket Head Screw, M8 x 1.25 mm Thread, 35 mm Long, Packs of 10	2 Packs	2



# Packing List

200 Aurora Industrial Pkwy  
Aurora OH 44202-8087  
330-995-5500  
cle.sales@mcmaster.com

Dart Aerospace Ltd  
1270 Aberdeen St  
Hawkesbury ON K6A 1K7  
Canada

Purchase Order  
**PO039920**

Order Placed By  
**Chantal Lavoie**

McMaster-Carr Number  
**3695508-04**

Page 2 of 2

05/16/2018

Line	Product	Ordered	Shipped
24	<b>93791A424</b> Black-Oxide 18-8 Stainless Steel Hex Drive Flat Head Screws, 3/8"-16 Thread Size, 1" Long, Packs of 5	<b>6 Packs</b>	<b>6</b>
25	<b>93800A650</b> Nylon Hex Nut, M8 x 1.25 mm Thread, Off-White, Packs of 50	<b>1 Pack</b>	<b>1</b>
26	<b>94355A227</b> 18-8 Stainless Steel Flat-Tip Set Screws, 10-24 Thread, 1/2" Long, Packs of 50	<b>1 Pack</b>	<b>1</b>
27	<b>96194A102</b> Medium-Strength Steel Serrated Flange Locknut, Class 8, Zinc-Plated, M8 x 1.25 mm Thread, Packs of 100	<b>1 Pack</b>	<b>1</b>
28	<b>97245A453</b> Zinc-Plated Steel Clevis Pin, 5/8" Diameter, 1-1/2" Usable Length, Packs of 10	<b>2 Packs</b>	<b>2</b>
29	<b>98338A280</b> Zinc-Plated Steel Cotter Pins, 3/16" Diameter, 2" Long, Packs of 50, 50 Each Package	<b>1 Pack</b>	<b>1</b>
31	<b>90145A509</b> 18-8 Stainless Steel Dowel Pin, 3/16" Diameter, 7/8" Long, Packs of 20	<b>1 Pack</b>	<b>1</b>

Shipped separately from our New Jersey warehouse on 05/16

11	<b>2595K22</b> Fuel-Resistant Ultra-Flex Heat-Shrink Tubing, 0.19" ID Before Shrinking, 1/2 Feet Long	<b>30 Each</b>	<b>10</b>
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Expected to ship

14	<b>8547K893</b> Tube Made From PTFE, 1" OD X 1/2" ID	<b>60 Feet</b>	<b>60</b> May 22-30
30	<b>2092A42</b> Plunger-Style Variance Indicator, Plus/Minus Dial, Plain, 0" to 1" Range, AGD Group 2	<b>1 Each</b>	<b>1</b> May 22-Jun 6





200 Aurora Industrial Pkwy  
Aurora OH 44202-8087  
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cle.sales@mcmaster.com

Dart Aerospace Ltd  
1270 Aberdeen St  
Hawkesbury ON K6A 1K7  
Canada

Purchase Order  
**PO039920**

Order Placed By  
**Chantal Lavoie**

McMaster-Carr Number  
**3695508-01**

Page 1 of 3

05/16/2018

Line	Product	Ordered	Shipped
11	<b>2595K22</b> Fuel-Resistant Ultra-Flex Heat-Shrink Tubing, 0.19" ID Before Shrinking, 1/2 Feet Long	30 Each	10
Shipped separately from our Cleveland warehouse on 05/16			
1	<b>90177A213</b> Zinc-Plated Steel Split Rings, 9/16" OD, 7/16" ID, 1/16" Thick	1 Pack	1
2	<b>98381A544</b> Dowel Pin, Alloy Steel, 1/4" Diameter, 1-1/4" Long	4 Packs	4
3	<b>8572K38</b> White Delrin Acetal Resin Rod, 5" Diameter, 3' Length	3 Feet	3
4	<b>8920K22</b> Low-Carbon Steel Rod, 6 mm Diameter, 6 Feet Long	1 Each	1
5	<b>1770A725</b> Zinc Keyed Cam Lock, Nickel-Plated, Key #C420A for 1-7/16" Maximum Thickness, Clockwise	5 Each	5
6	<b>8183K6</b> Brass Submersible Cord Grip, Metric Threads, for 0.12"-0.2" Cord OD, M8 Knockout Size	12 Each	12
7	<b>7216K5</b> Straight-Blade Connector, Hinged, 3-Blade Plug, Grounded, NEMA 5-15, Yellow	25 Each	25
8	<b>7216K6</b> Straight-Blade Connector, Hinged, 3-Slot Socket, Grounded, NEMA 5-15, Yellow	10 Each	10
9	<b>69525K16</b> Noninsulated Quick-Disconnect Terminals, Single-Crimp Female, 16-14 Gauge, 1/4" Wide x 0.032" Thick Tab	1 Pack	1
10	<b>94355A330</b> 18-8 Stainless Steel Flat-Tip Set Screws, 10-32 Thread, 1/4" Long	4 Packs	4
11	<b>2595K22</b> Fuel-Resistant Ultra-Flex Heat-Shrink Tubing, 0.19" ID Before Shrinking, 1/2 Feet Long	30 Each	20
12	<b>7767T65</b> Low-Carbon Steel Round Tube, 0.188" Wall Thickness, 1-3/8" OD, 6 Feet Long	2 Each	2

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Aurora OH 44202-8087  
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Purchase Order  
**PO039920**

Order Placed By  
**Chantal Lavoie**

McMaster-Carr Number  
**3695508-01**

Page 2 of 3

05/16/2018

Line	Description	Ordered	Shipped
13	<b>84735K117</b> Flexible Vinyl High-Temperature Push-on Round Caps for 1"-1-1/16" OD, 1-1/2" Inside Height	1 Pack	1
15	<b>90263A112</b> 316 Stainless Steel Precision Shoulder Screw, 3mm Diameter 3mm Long Shoulder, M2 x 0.4mm Thread	10 Each	10
16	<b>90576A115</b> Medium-Strength Steel Nylon-Insert Locknut, Class 8, Zinc-Plated, M6 x 1 mm Thread	1 Pack	1
17	<b>91352A156</b> Alloy Steel Button Head Hex Drive Screws, Blue-Dyed Zinc-Plated, M8 x 1.25 mm Thread, 30 mm Long	1 Pack	1
18	<b>91306A674</b> Button Head Hex Drive Screws, Zinc-Plated Alloy Steel, M6 x 1 mm Thread, 25 mm Long	1 Pack	1
19	<b>90591A260</b> Zinc-Plated Steel Hex Nut, Medium-Strength, Class 8, M5 x 0.8 mm Thread	1 Pack	1
20	<b>90965A160</b> 316 Stainless Steel Washer for M5 Screw Size, 5.3 mm ID, 10 mm OD	1 Pack	1
21	<b>9263K642</b> Chemical-Resistant Viton Fluoroelastomer O-Ring, 1.9 mm Wide, 7.8 mm ID	1 Pack	1
22	<b>93441A170</b> Slotted Unthreaded Spacers, 1/4" OD, 1/4" Long	1 Pack	1
23	<b>93640A123</b> Nylon Socket Head Screw, M8 x 1.25 mm Thread, 35 mm Long	2 Packs	2
24	<b>93791A424</b> Black-Oxide 18-8 Stainless Steel Hex Drive Flat Head Screws, 3/8"-16 Thread Size, 1" Long	6 Packs	6
25	<b>93800A650</b> Nylon Hex Nut, M8 x 1.25 mm Thread, Off-White	1 Pack	1
26	<b>94355A227</b> 18-8 Stainless Steel Flat-Tip Set Screws, 10-24 Thread, 1/2" Long	1 Pack	1
27	<b>96194A102</b> Medium-Strength Steel Serrated Flange Locknut, Class 8, Zinc-Plated, M8 x 1.25 mm Thread	1 Pack	1

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Hawkesbury ON K6A 1K7  
Canada

Purchase Order  
**PO039920**

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**Chantal Lavoie**

McMaster-Carr Number  
**3695508-01**

Page 3 of 3

05/16/2018

Line	Description	Ordered	Shipped
28	<b>97245A453</b> Zinc-Plated Steel Clevis Pin, 5/8" Diameter, 1-1/2" Usable Length	<b>2</b> Packs	<b>2</b>
29	<b>98338A280</b> Zinc-Plated Steel Cotter Pins, 3/16" Diameter, 2" Long	<b>1</b> Pack	<b>1</b>
31	<b>90145A509</b> 18-8 Stainless Steel Dowel Pin, 3/16" Diameter, 7/8" Long	<b>1</b> Pack	<b>1</b>

## Expected to ship

14	<b>8547K893</b> Tube Made From PTFE, 1" OD X 1/2" ID	<b>60</b> Feet	<b>60</b> May 22-30
30	<b>2092A42</b> Plunger-Style Variance Indicator, Plus/Minus Dial, Plain, 0" to 1" Range, AGD Group 2	<b>1</b> Each	<b>1</b> May 22-Jun 6



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Aurora OH 44202-8087  
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Dart Aerospace Ltd  
1270 Aberdeen St  
Hawkesbury ON K6A 1K7  
Canada

Purchase Order  
**PO039920**

Order Placed By  
**Chantal Lavoie**

McMaster-Carr Number  
**3695508-02**

Page 1 of 1

05/16/2018

Line	Product	Ordered	Shipped
3	8572K38 White Delrin Acetal Resin Rod, 5" Diameter, 3' Length	3 Feet	3

Shipped separately from our New Jersey warehouse on 05/16

11	2595K22 Fuel-Resistant Ultra-Flex Heat-Shrink Tubing, 0.19" ID Before Shrinking, 1/2 Feet Long	30 Each	10
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Expected to ship

14	8547K893 Tube Made From PTFE, 1" OD X 1/2" ID	60 Feet	60 May 22-30
30	2092A42 Plunger-Style Variance Indicator, Plus/Minus Dial, Plain, 0" to 1" Range, AGD Group 2	1 Each	1 May 22-Jun 6

200 Aurora Industrial Pkwy  
Aurora OH 44202-8087  
330-995-5500  
cle.sales@mcmaster.com

Dart Aerospace Ltd  
1270 Aberdeen St  
Hawkesbury ON K6A 1K7  
Canada

Purchase Order  
**PO039920**  
Order Placed By  
**Chantal Lavoie**

Page 1 of 1  
05/16/2018

McMaster-Carr Number  
**3695508-03**

Line	Product	Ordered	Shipped
4	<b>8920K22</b> Low-Carbon Steel Rod, 6 mm Diameter, 6 Feet Long	1 Each	1
12	<b>7767T65</b> Low-Carbon Steel Round Tube, 0.188" Wall Thickness, 1-3/8" OD, 6 Feet Long	2 Each	2

Shipped separately from our New Jersey warehouse on 05/16

11	<b>2595K22</b> Fuel-Resistant Ultra-Flex Heat-Shrink Tubing, 0.19" ID Before Shrinking, 1/2 Feet Long	30 Each	10
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Expected to ship

14	<b>8547K893</b> Tube Made From PTFE, 1" OD X 1/2" ID	60 Feet	60 May 22-30
30	<b>2092A42</b> Plunger-Style Variance Indicator, Plus/Minus Dial, Plain, 0" to 1" Range, AGD Group 2	1 Each	1 May 22-Jun 6

## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 7767+65  
 DATE: MAY 22 2018

PO / BATCH NO.: 039920/5073091

MATERIAL CERT REC'D: yes  
 QUANTITY RECEIVED: 12'  
 QUANTITY INSPECTED: 12'  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.188 w.  
 THICKNESS RECEIVED: 0.188 w  
 SHEET SIZE ORDERED: N/A  
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT FINISH	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORROSION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="radio"/> N <input type="radio"/>	7767+65
CORRECT THICKNESS	Y <input checked="" type="radio"/> N <input type="radio"/>	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="radio"/> N <input type="radio"/>	Part 039920 Part # 7767+65
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="radio"/> N <input type="radio"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input type="radio"/> N <input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input type="radio"/> N <input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>11</u> DATE: <u>MAY 22 2018</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# McMASTER-CARR®

## Low-Carbon Steel Round Tube

0.188" Wall Thickness, 1-3/8" OD

7767T65



Material	Low-Carbon Steel
Cross Section Shape	Round
Construction	Hollow
Appearance	Plain
Wall Thickness	0.188"
Tolerance	Oversized
Rating	
OD	1 3/8"
OD Tolerance	0" to 0.005"
ID	1"
Yield Strength	45,000 psi
Fabrication	Cold Worked
Temper Rating	Hardened
Hardness	Rockwell B60
Hardness Rating	Medium
Heat Treatable	Yes
Maximum Hardness after Heat Treatment	Not Rated
Temperature Range	Not Rated
Specifications	ASTM
Met	A513
Straightness Tolerance	Not Rated



Density	0.28 lbs./cu. in.
Surface Resistivity	15 microhm- cm @ 32° F
Thermal Conductivity	350 Btu/hr. x in./sq. ft./°F @ 212° F
Coefficient of Thermal Expansion	$7.1 \times 10^{-6}$
Elongation	23%
Material Composition	
Iron	98.06- 99.42%
Carbon	0.13-0.20%
Manganese	0.30-0.90%
Phosphorus	0.04% Max.
Silicon	0.15-0.30%
Sulfur	0.50% Max.
Length	1 ft., 3 ft., 6 ft.
RoHS	Compliant

Low-carbon steel offers good machinability with excellent weldability. It's widely used for parts that don't require high strength, such as fixture clamps, mounting plates, and spacers. This material can be surface hardened with heat treating.

## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 8920K22  
 DATE: MAY 22 2018

PO / BATCH NO.: 039920/8073090

MATERIAL CERT REC'D: yes  
 QUANTITY RECEIVED: 6'  
 QUANTITY INSPECTED: 6'  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 6mm  
 THICKNESS RECEIVED: 6mm  
 SHEET SIZE ORDERED: N/A  
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	8920K22
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	PO # 039920 Part # 8920K22
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 11</u> DATE: <u>9-89 MAY 22 2018</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

## Low-Carbon Steel Rod 6 mm Diameter

\$9.54 Each  
8920K22



Material	Low-Carbon Steel
Cross Section Shape	Round
Construction	Solid
Appearance	Plain
Diameter	6 mm
Diameter Tolerance	-0.05 to 0 mm
Tolerance Rating	Undersized
Yield Strength	60,000 psi
Fabrication	Cold Worked
Temper Rating	Hardened
Hardness	Rockwell B85
Hardness Rating	Medium
Heat Treatable	Yes
Maximum Hardness after Heat Treatment	Not Rated
Temperature Range	Not Rated
Specifications Met	ASTM A108
Straightness Tolerance	Not Rated
Density	0.28 lbs./cu. in.
Surface Resistivity	15.9 microhm-cm @ 32° F
Thermal Conductivity	350 Btu/hr. x in./sq. ft./°F @ 212° F
Coefficient of Thermal Expansion	$7.1 \times 10^{-6}$
Elongation	23%
Material Composition	
Iron	98.06-99.42%
Carbon	0.13-0.20%
Manganese	0.30-0.90%
Phosphorus	0.04% Max.
Silicon	0.15-0.30%
Sulfur	0.50% Max.
Length Tolerance	-2" to 2"
Length	6 ft.
RoHS	Compliant

Low-carbon steel offers good machinability with excellent weldability. It's widely used for parts that don't require high strength, such as fixture clamps, mounting plates, and spacers. This material can be surface hardened with heat treating.

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: Delrin R5.000W  
 DATE: MAY 22 2018

PO / BATCH NO.: 039920/5073092

MATERIAL CERT REC'D: yes  
 QUANTITY RECEIVED: 3  
 QUANTITY INSPECTED: 3  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 5.000W  
 THICKNESS RECEIVED: 5.125  
 SHEET SIZE ORDERED: N/A  
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/>	
CORROSION	Y <input type="radio"/> N <input checked="" type="radio"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/>	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/>	<u>Delrin Acetal</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/>	
PHOTO REQUIRED	Y <input type="radio"/> N <input checked="" type="radio"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/>	<u>Part# 039920 Part# Delrin R5.000W/6572K38</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/>	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input type="radio"/> N <input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input type="radio"/> N <input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 11</u>	SIGNED OFF BY: _____
DATE: <u>9-89 MAY 22 2018</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

**SPECIFICATION CONTROL DRAWING**

PURCHASE MATERIAL : DELRIN II 150E OR ACETRON GP ACETAL

PART NUMBER : M-DELRIN-R.D.DDD | X |  | COLOR CODE

WHERE D.DDD = DIAMETER IN INCHES  
 X = COLOR CODE. "W" = WHITE, OMITTED = BLACK  
EG. 1" BLACK ROUND BAR = M-DELRIN-R1.000  
2" WHITE ROUND BAR = M-DELRIN-R2.000W

RELEASED  
2018 MAR 27 *q*  
EJ 18-657

APPROVED

B	UPDATE DRAWING TO CURRENT STANDARDS, ADD MATERIAL COLOR "WHITE", ADD REASON CIR-110, ADD "ACETRON GP ACETAL" AS OPTION (REV. A1).		SAD	17.10.19
A	NEW ISSUE		DS	01.11.12
REV	DESCRIPTION		BY	DATE
DESIGN	SAD		DART AEROSPACE LTD	
DRAWN	SAD		HAWKESBURY, ONTARIO, CANADA	
CHECKED	RF		DRAWING NO.	
MFG. APPR.	RA		M-DELRIN-R	
APPROVED	HS		TITLE	
DE APPR.	CP <i>q</i>		DELIN ROUND BAR	
DATE	17.10.19		SCALE	
				NTS

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## White Delrin® Acetal Resin Rod 5" Diameter



Delivers tomorrow 10-12 pm  
\$432.15 Each  
8572K38

Material	Delrin® Acetal Plastic
Cross Section Shape	Round
Construction	Solid
Texture	Smooth
Color	White
Clarity	Opaque
Diameter	5"
Diameter Tolerance	0" to +0.250"
Tolerance Rating	Oversized
Length	3 ft.
Hardness	Rockwell M90
Hardness Rating	Hard
For Use Outdoors	No
Temperature Range	-20° to 180° F
Impact Strength	1.00 ft.-lbs./in.
Impact Strength Rating	Good
Tensile Strength	9,000 psi
Tensile Strength Rating	Good
Specifications Met	ASTM D6100, NSF/ANSI Standard 51 for Food Contact, NSF/ANSI Standard 61 for Drinking Water
Density	0.051 lbs./cu. in.
Coefficient of Friction	0.20
Dielectric Strength	435 V/mil
Water Absorption	0.30%
Coefficient of Thermal Expansion	$8.5 \times 10^{-5}$ in./in./°F
RoHS	Compliant